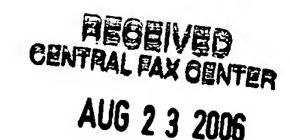
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Appln. No. 10/609,179
Response dated August 23, 2006
Reply to Office Action of February 24, 2006



Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended): A method for making an impregnated textile synthetic leather, the method comprising:
- (a)impregnating a non-woven or woven textile with a polyurethane dispersion comprised of a nonionizable polyurethane and an external stabilizing surfactant; and
- (b) exposing the impregnated textile to water containing a coagulant for a coagulation time sufficient to coagulate the dispersion

wherein the coagulant is a multivalent cation neutral salt.

- 2. (original): The method of Claim 1, wherein the method is carried out in an environment containing less than about 2000 parts per million by weight of an organic solvent.
- 3. (original): The method of Claim 1, wherein the method is carried out essentially free of an organic solvent.
 - 4. (cancelled)
- 5. (currently amended): The method of Claim 1[4], wherein the coagulant is an alkaline earth cation salt.
- 6. (original): The method of Claim 5, wherein the coagulant is calcium nitrate, magnesium nitrate, strontium nitrate and barium nitrate or mixture thereof.
- 7. (original): The method of Claim 3, wherein the polyurethane dispersion contains non-polyurethane polymeric particles.

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- 8.(currently amended): The method of Claim 1, wherein the eoagulant coagulation time is at most 2 minutes.
- 9.(currently amended): The method of Claim 8, wherein the coagulant coagulation time is at most 1 minute.
- 10.(currently amended): The method of Claim 9, wherein the coagulant coagulation time is at most 30 seconds.
- 11.(original): The method of Claim 1, further comprising leaching the impregnated textile after step (b) by exposing the impregnated textile to water.
- 12. (original): The method of Claim 1, wherein the polyurethane dispersion contains a thickener.
- 13. (original): The method of Claim 12 wherein the thickener is water soluble thickener that is not ionizable.
- 14. (original): The method of Claim 13 wherein the thickener is a methylcellulose ether.
- 15. (original): The method of Claim 1 further comprising applying a frothed polymeric dispersion after step (b) to form a synthetic leather having a poromeric layer thereon.
- 16. (original): The method of Claim 15 wherein the frothed polymeric dispersion is an aqueous externally stabilized polyurethane dispersion.
- 17. (original): The method of Claim 16 wherein the poromeric layer is heated sufficiently to dry and cure the poromeric layer and then is leached in water.
- 18. (original): A method for making synthetic leather having a poromeric layer thereon, the method comprising:
- (a) applying onto a textile, impregnated with a polymer, a frothed aqueous polyurethane dispersion, the aqueous polyurethane dispersion having an externally stabilizing surfactant; and then

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- (b) heating to a temperature sufficient to dry and cure the product of step (a) to form the synthetic leather having a poromeric layer.
- 19. (original): The method of Claim 18, wherein the frothed aqueous polyurethane is of an aromatic polyisocyanate.
- 20. (original): The method of Claim 19, wherein the aromatic polyisocyanate is 2,2'-diphenyl-methanediisocyanate, 4,4'diphenyl-methanediisocyanate or mixture thereof.
- 21. (original): The method of Claim 18, wherein the frothed polyurethane dispersion is frothed mechanically.
- 22. (original): The method of Claim 18 wherein the synthetic leather of step (b) is leached using water essentially free of organic solvents for a time sufficient to remove at least about 10% by weight of the externally stabilizing surfactant.
- 23. (original): The method of Claim 22, wherein the synthetic leather of step (b) is leached for a time sufficient to remove at least 50% of the externally stabilizing surfactant.
- 24. (original): The method of Claim 23 wherein the synthetic leather of step (b) is leached for time sufficient to remove at least 70% of the externally stabilizing surfactant.
- 25. (original): The method of Claim 18 wherein the externally stabilized surfactant is a mixture of an anionic and an amphoteric surfactant.
- 26. (original): The method of Claim 25, wherein the amphoteric surfactant is a betaine.
- 27. (original): The method of Claim 18 wherein the method is performed essentially free of organic solvents.

- 28. (withdrawn): A synthetic leather comprised of a textile having a plurality of fibers wherein the textile has therein a polyurethane and a multivalent cation substantially water insoluble salt of an organic acid.
- 29. (withdrawn): The synthetic leather of Claim 28 wherein the organic acid is butyric acid; hexanoic acid; octanoic acid; decanoic acid; dodecanoic acid; linoleic acid; myristic acid; palmitic acid; oleic acid; linoleic acid; stearic acid; linolenic acid; dodecylbenzene sulfonic acid; or mixture thereof.
- 30. (withdrawn): The synthetic leather of Claim 28 wherein the multivalent cation of the water insoluble salt is an alkaline earth.
- 31. (withdrawn): The synthetic leather of Claim 30 wherein the multivalent cation is calcium.
- 32. (withdrawn): The synthetic leather of Claim 28, wherein the textile has a permeable polymeric poromeric layer thereon.
- 33. (withdrawn): The synthetic leather of Claim 32, wherein the poromeric layer is polyurethane.
- 34. (withdrawn): The synthetic leather of Claim 33 wherein the polyurethane of the poromeric layer is of an aqueous externally stabilized polyurethane essentially free of any organic solvent.
- 35. (withdrawn): The synthetic leather of Claim 32, wherein the porous cellular coating has uniformly spherical pores having an average size between about 300 micrometers squared to 25000 micrometers squared by number.
- 36. (withdrawn): A synthetic leather comprised of a textile having a poromeric layer comprised of polyurethane thereon wherein the synthetic leather has an amount of a surfactant of at least a trace amount to at most about 4% by weight of the poromeric layer and a wet ply adhesion of at least about 1.5 kg/cm.
- 37. (withdrawn): The synthetic layer of Claim 36, wherein the amount of surfactant is at most about 2% by weight of the poromeric layer.

- 38. (withdrawn): The synthetic leather of Claim 36, wherein the poromeric layer has uniformly spherical pores having an average size between about 300 micrometers squared to 25000 micrometers squared by number.
- 39. (withdrawn): The synthetic leather of Claim 36, wherein the synthetic leather has a wet ply adhesion of at least about 2.0 kg/cm.
- 40. (withdrawn): The synthetic leather of Claim 38 wherein the poromeric layer polyurethane is of an externally stabilized polyurethane dispersion.
- 41. (withdrawn): The synthetic leather of Claim 36 wherein the synthetic leather was prepared in an environment essentially free of an organic solvent.
- 42. (withdrawn): The synthetic leather of Claim 36 wherein the textile was impregnated with a polymer.
- 43. (withdrawn): The synthetic leather of Claim 42 wherein the polymer was polyurethane.